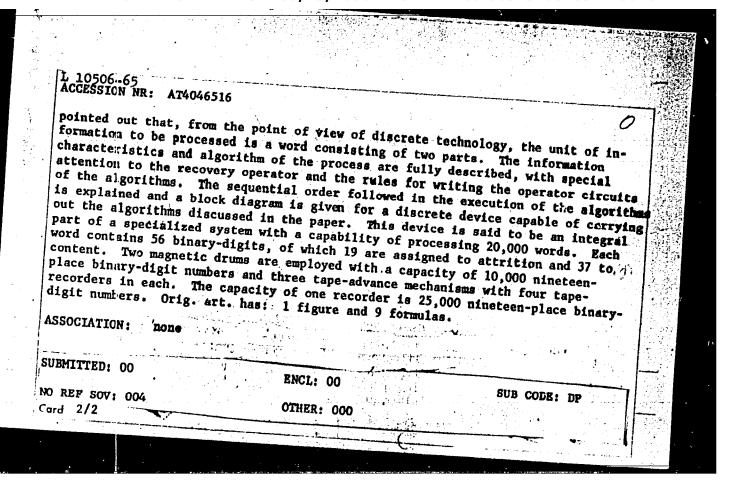
4 IJP(c)/ASD(a)-5/ABDC(a)/BSD/	-2/ENP(1) Pm-4/Po-4/Pq-4/Pg-4/Ph-4/Pk-4/ /ESD(c)/AFMD(p)/ASD(d)/ESD(dp)/AFETR/ESD(t)/	
FTC(b)/FAEM(t) BB/GG CCESSION NR: AT4046516	\$/2976/64/000/004/0005/0012	
	technical sciences, Professor); Solocatin, N. M.	
	or solving information-logic problems	12 St.
skhnike, no. 4, 1964, 5-12	sekoye uchilishche. Vy*chislitel'neys	
rum, magnetic tape	lem, data processing, logic problem, magnetic	
ion-logic problem", point out some s roblem, and analyze the difficulties	inition of what is meant by the term "informa- specific peculiarities of this class of s encountered in solving such problems on led systems. The need for specially designed	
ybrid systems for information process f universal discrete systems and of	systems specially adapted to the solution of	
uch a machine is the "Ural-4". In	the present article, the authors consider the to the processing of industrial information, device using magnetic drums and tapes. It is	
ard 1/2		
T CONTROL TOWNS TO SELECT	INTERPOLATION OF THE PROPERTY	



L 13073:-65 EWT(d)/EEC(k)-2/EED-2/EWP(1)PR-4/PK-4/Po-4/Pq-4 AFETH/AFTC(b)/BSD/ASD(a)-5/RAEM(1)/ESD(dp) GG/BB ACCESSION NR: AT4046523 8/2976/64/000/004/0090/0098

AUTHORS: Anisimov, B. V.; Solomatin, N. M.

TITLE: Device for recording synchronizing and control pulses on a magnetic drum

SOURCE: Moscow. Vy*ssheye tekhnicheskoye uchilishche. Vy*chislitel'naya tekhnika, no. 4, 1964, 90-98

TOPIC TACE: magnetic drum drum storage, computer memory, control pulse recording, synchronizing pulse recording

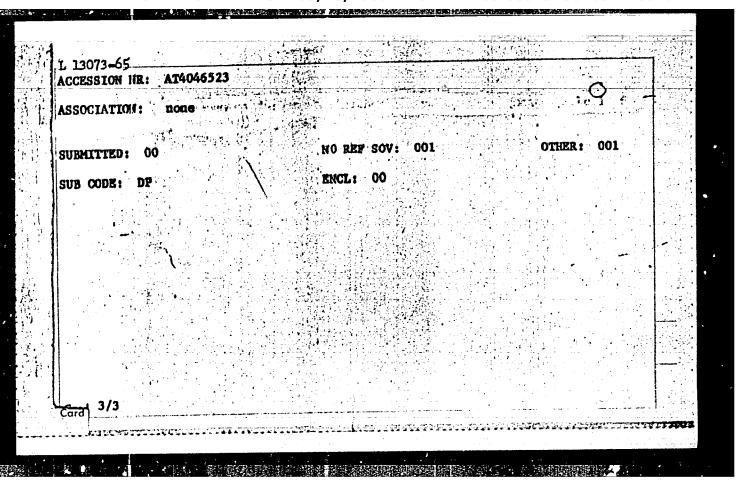
ABSTRACT: Among the different methods of placing the synchronizing and control pulses on a magnetic drum memory, particular attention is directed to the mechanical and the magnetic method. The disadvantages of the former are noted, and various non-mechanical (principally magnetic) techniques for recording the pulses on one and three-track drums are considered. The authors note that in almost all cases the suggested methods for recording synchronizing and control pulses on magnetic drums involve either a concrete discrete system (thus being unacceptable in a general case) or the development of separate and independent mechanisms which are excessively primitive and, thus, also fail to provide a solution to the problem in a general sense. In the present article, the authors consider an

L 13073-65 ACCESSION NR: AT4046523

electronic device for recording synchronizing and control pulses which provides a solution to the problem in a general case. Specifically, it permits: 1) the marking off of drums on which the working information is recorded and reproduced by the sequential, parallel or sequential-parallel methods; 2) the assignment of any number of synchronizing and control pulses; 3) the varying of the frequency of the synchronizing and control pulses; 4) the marking off of a magnetic drum during one revolution for all tracks simultaneously (after which the device is switched off; 5) the marking off of the drum from any arbitrarily selected position on the drum, and also in a forced manner from a single pulse inscribed on the drum; 6) the simultaneous marking off of several drums. An operational diagram of the device is given and its operational principles are analyzed on the basis of an example involving the recording of synchronizing and control pulses on three tracks (as required in the sequential-parallel method). Individual circuit components of the device are discussed separately and in somewhat greater detail. These include the pulse generator; the recording amplifier, and the reproduction amplifier. It is claimed that an experimental check both of the unit as a whole and of its individual components, revealed the operation to be quite reliable. Orig. art. has: 8 figures and 4 formulas.

Cara 2/3

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652220010-2



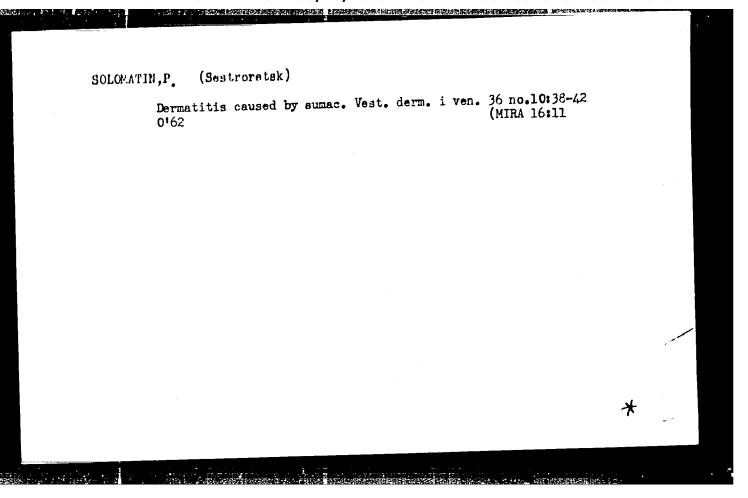
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SOLOMATIN, 0.M., inzh.

Hand wrenches for high-strength bolts. Transp. stroi. 12 no.5:49-50
(MIRA 15:6)

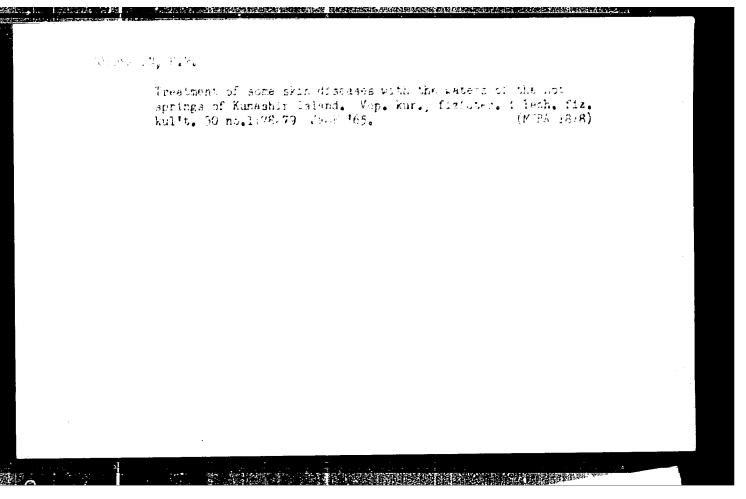
My '62.

(Wrenches)



SOLOMATIN, P.N. (Yuzhno-Kuriliak)

Treatment of some skin diseases with water from the hot springs of the Kunashir Island. Vest derm. i ven. 38 no.3:56-61 Mr 164. (MIRA 18:4)



307/25-59-3-10/46

30(1)

Solomatin, S.

AUTHOR:

TITLE:

Dikotex (Dikoteks)

PERIODICAL:

Nauka i zhizn', 1959, Nr 3, p 30 (USSR) In 1958: several dozens of thousand hectares of flax

ABSTRACT:

In 1970; Several dozens of thousand nectares of "Di-seeds were treated with the new Czech herbicide" the seeds were treated with the new Gzech herbicide "DiKotex" to inhibit the growth of weeds. However, be
Sprinkling of Diketex over flax fields proved to be
difficult exace large quantities adversaly affect Sprinkling of pikerex over that the proved to be difficult since large quantities adversely affect the physiological process of the plant while email the physiological process of the plant; whe hest quantities cause an intensified growth.

The best time for treatment is at a plant height of gline time for treatment is at a plant height of 8-10 cm, when no damage can be done to the narrow leaves. when no damage can be done to the narrow reaves.
To increase the efficiency of sprinkling methods, To increase the efficiency of sprinkling methods,
M.Ya, Berezovskiy, Candidate of Agricultural Sciences,
and Scientific Co-Worker of the Pochvenno-agronomiand Scientific Co-Worker of the Vil'yamsa (Soil and
cheskaya stantsiya imeni V.R. Vil'yams) suggested
Agricultural Station imeni V.R. Vil'yams)

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R00165222001 POLOVCHENKO, I. G.; LOGINOV, V. I.; DUBENKO, Yu. S.; SOLOMATIN, S. M.

Desulfuration of cast iron by magnesium in the ladle. Izv. vys. ucheb. zav.; chern.met. 7 no. 4:31-36 164. (MIRA 17:5)

1. Dneprodzerzhinskiy metallurgicheskiy zavod-vtuz.

SOLOMATIN, S.S.

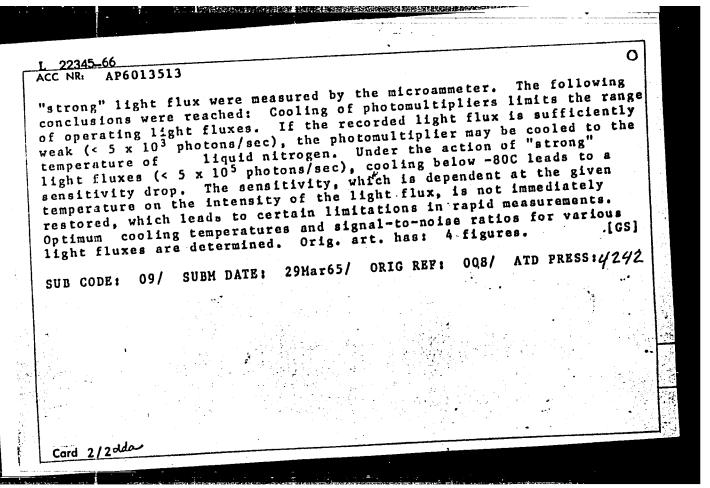
Characteristics and nature of monophasic potentials. Trudy Inst. normal pata fiziol. AMMI SSSR 7:52-93 164.

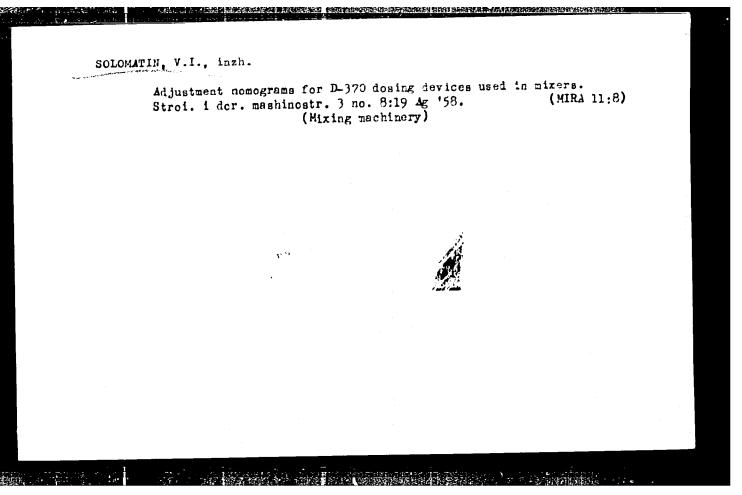
(MIRA 18:6)

1. Laboratoriya vozrastnoy fiziologii † patologii (zav. - prof. I.A. Arshavskiy) Instituta normalinoy : patologichaskoy fiziologii AMN SSSR.

L 22345-66 ACC NR. X XP6013513 SOURCE CODE: UR/0120/66/000/002/0129/0131 Barenboym, G. M.; Domanskiy, A. N.; Solomatin, V. P. ORG: Cytology Institute, AN SSSR, Leningrad (Institut tsitologii AN SSSR) TITLE: Characteristics of cooled photomultipliers of FEU-39 and FEU-46A types L SOURCE: Pribory i tekhnika eksperimenta, no. 2, 1966, 129-131 TOPIC TAGS: photomultiplier, photocathode, light emission ABSTRACT: Results are given of an investigation of the sensitivity and the dark current of the FEU-39 and FEU-46A nitrogen-cooled photomultipliers having antimony-cesium photocathodes without a conducting substrate. Light from ana SVD-120A lamp passed through the quartz light guide and the ZMR-3 monochromator illuminating the photocathodes. A photocurrent two or three times greater than the dark current at room temperature corresponds to the "weak" light flux with 5×10^3 photons/sec. The photocurrent due to a "strong" light flux was not less than 5×10^{-8} amp which, according to the calculation, corresponds to a flux with 5 x 105 photons/sec. The signal from the "weak" 'ight flux and the photomultiplier noise were measured by counting the pulses developing across the photomultiplier load. Signals from the Card 1/2 UDC: 621.383.53

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652220010-2"





KAGAN, F.I., kand. veter. nauk; SOLOMATIN, V.I., mladshiy nauchnyy sotrudnik

Biomycin and terramycin treatment of necrobacillosis in cattle and sheep. Veterinariia 40 no.3:53-54 Mr '63. (MIRA 17:1)

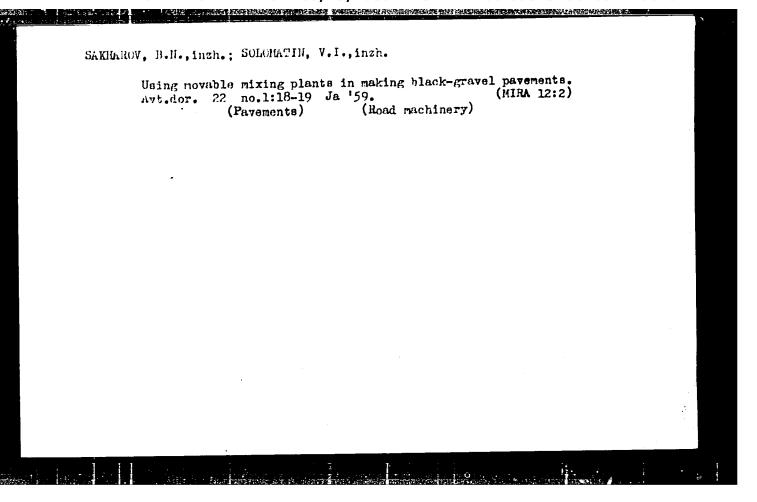
1. Gosudarstvennyy nauchno-kontrolinyy institut veterinarnykh preparatov.

SOLOMATIN, V., komandir ekipazha samoleta An-2.

Looking into the future. Grazhd. av. 20 no.1:11 Ja '63.

(MIRA 16:4)

(Aeronautics in agriculture)



MIKHAYLOV, Aleksey Nikolayevich; SOLOMATIN, V.I., red.; GANYUSHIN, A.I., red.izd-va; DONSKAYA, G.D., tekhn.red.

[Operating the D-370 mixer and the D-371 loader] Eksplustatsiia smesitelia D-370 i pogruzchika D-371. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1960. 65 p. (MIRA 13:12)

(Road machinery)

SOLOV'YMV, Nikolay Vladimirovich; STUKUSHIN, V.I., retsenzent; SOLOMATIN, V.M., retsenzent; FRIK, A.O., redaktor; KAN, P.M., redaktor izdatel'stva; KRASNAYA, A.K., tekhnicheskiy redaktor

[Electric propeller equipment for river boats fo the Rossia" type] blektrogrebnaia stanovka rechnykh sudov tipa "Rossia." Moskva, Izd-vo "Rechnoi transport," 1957. 65 p. (MIRA 10:9) (Ship propulsion, Electric)

SOLCMATIN, Vladimir Mikhaylovich, inzh.; SUKHOV, Dmitriy Konstantinovich, inzh.; SKVORTSOV, D.R., retsenzent; KAN, P.M., red. izd-va; BODROVA, V.A., tekhm. red.

[Electrical engineering and telecommunication] Elektrotekhnika i elektrosviaz. Moskva, Izd-vo "Rechnoi transport," 1960.

(MIRA 15:1)

(Electricity on ships) (Telecommunication)

retsenzent; PETURESC, M.N., introduct; RONGLANTHOU, V.F., retsenzent; PETURESC, M.N., introducent; IRUGLIK, G.L., retsenzent; TWPITSA, I.S., retsenzent; FRIK, A.O., inzh., nauchn. red.

[Manual for ship engineers and electricians] Spravochnik elektromekhanika i elektrika sudna. Moskva, Izd-vo "Rechnoy transport," 1963. 713 p. (MIRA 17:2)

SOLOMATIN, V.P.

Faulty construction of track boxes. Avtom., telem.i sviaz' 4 no.2: 44 F '60. (MIRA 13:6)

1. Starshiy elektromekhanik Kurskoy distantsii signalizatsii i svyazi Moskovskoy dorogi.
(Railroads--Equipment and supplies)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652220010-2"

L 11274-53 ACCESSION NR: AP3003716 8/0109/63/008/007/1156/1164

46

AUTHOR: Mustel', Ye. R.; Pary*gin, V. N.; Solomatin, V. S.

TITIE: Two-circuit parametric frequency dividers

SCURCE: Radiotekhnika i elektronika, v. 8, no. 7, 1963, 1156-1164

TOPIC TAGS: parametric frequency divider, series-connected divider, parallel-connected divider, pumping frequency generator, frequency division band, oscillation amplitude, pumping current, diode bias

ABSTRACT: A two-circuit parametric frequency divider with a series- or parallel-connected pumping frequency generator is studied. The study includes a theoretical summary of the operation of the device and an analysis and comparison of the operations of both types of circuits for the case when division factor n=4. A parametric frequency divider with a D7 diode and a pumping frequency of 8—10 Mc was investigated. For the circuit with the series-connected pumping frequency generator, small relative frequency division bands connected pumping frequency generator, small relative frequency division bands the achieved. At n=4 the relative band, $\Delta f/f=16$. With an increase in the division factor, the band decreased, and at n=8 division no longer took place. In the case of the parallel-connected pumping frequency generator

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ACCESSION NR: AP3003716

division by a factor of 3-50 was observed. The dependence of oscillation amplitude in the division band and in the low-frequency circuit on detuning at a constant pumping current was plotted. At small pumping currents, oscillation amplitude changed with detuning, but with an increase in pumping current these changes became insignificant. The graph representing the dependence of division bandwidth on pumping current at a constant diode bias, showed an increase in bandwidth with an increase in pumping frequency. At large rumping currents, the bandwidth begins to decrease. This phenomenon is probably caused by the occurrence of conductivity current in the diode. Orig. art. has: 6 figures, 10 formulas, and 1 table.

ASSOCIATION: Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta im. M. V. Lomonosov. Kafedra teorii kolebaniy (Physics Faculty, Moscow State University. Department of Oscillation Theory)

SUBMITTED: 20Jun62

DATE ACQ: 02Aug63

ENCL: 00

SUB CODE: SD

NO REF SOV: 005

OTHER: 000

1s/W Card 2/2

AUTHOR:	Chetkin, M. V.; Solomatin, V. S	·	
ORG: 1 univer	· · · · · · · · · · · · · · · · · · ·	Lomonosov (Moskovskiy gosudarstvennyy	
TITLE:	The magneto-optic modulation of	an infrared gas laser	
SOURCE:	Fizika tverdogo tela, v. 8, no.	11, 1966, 3388-3390	
	AGS: gas laser, infrared laser, optic modulation	laser output modulation, Q switching,	•
Infrare of vary from an A YaFe ₅ laser r saturat 533, 19 1 and 4 unalyze	Ing the emission intensity of Q-s He-Ne Laser operating at 3.39 u O ₁₂ single crystal 0.18 cm thick addition and was placed in a 15-ting magnetic field was set upby mons 31) using discharge currents from ky, respectively. The minimum m r at a 45° angle to the polarization of radiation intensity was ob-	le of the modulation of output from an lay effect with a view to devising a means witching of infrared lasers. The emission was monitored by a GaSb photodiode. was used to transmit one-half of the incident urn coil 1.2 cm in diameter. The 2000-oe described elsewhere (P. L. Kapitsa, UFN, 11, 1 two 0.1 and 0.004 uf condensers charged to agnetization time was 0.125 usec. With the ion plane of the laser output, a 40% served on the oscilloscope. The corresponding	
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CIA-RDP86-00513R001652220010-2

ZHUKOV, Vasiliy Andreyevich; MESYATSEV, P.P., retsenzent; LICHNOV, A.I., inzh., retsenzent; SHIROKOVA, Z.G.,inzh., retsenzent; GUREVICH, B.D., inzh., retsenzent; BASTANOV, S.S., inzh., retsenzent; GOLOVINA, K.N., inzh., retsenzent; BEL'TSEV, A.N., inzh., retsenzent; SOLOMATIN, V.V., inzh., retsenzent; MARSHEV, N.I., inzh., retsenzent; BALASHEVA, T.I., inzh., retsenzent; BALASHEVA, T.I., inzh., retsenzent; GIRSHMAN, G.Kh., red.; ANGELEVICH, N.E., red.; SOBOLEVA, Ye.M., tekhn.red.

[Technology of the manufacture of radio equipment] Tekhnologiia proizvodstva radioapparatury. Moskva, Gos.energ.izd-vo. 1959.

(Radio industry)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652220010-2"

ACC NR: AT7005248

SOURCE CODE: UR/2631/66/000/008/0079/0084

AUTHOR: Belyayeva, G. I.; Anfinogenov, A. I; Solomatin, V. Ye; Tlyushchenko, N. G.

ORG: none

TITLE: On the structure and properties of an electrolytic aluminum coating on molybdenum

SOURCE: AN SSSR. Ural'skiy filial. Institut elektrokhimii. Trudy, no. 8, 1966. Elektrokhimiya rasplavlennykh solevykh i tverdykh elektrolitov; fiziko-khimicheskiye svoystva elektrolitov i elektrodnyye protsessy (Electrochemistry of fused salts and solid electrolytes; physicochemical properties of electrolytes and electrode processes), 79-84

TOPIC TAGS: wetal plating, molybdonum, metal coaling

ABSTRACT: Aluminum coatings deposited on molybdenum by electrolyzing a fused electrolyte of the composition (wt. %) BaCl₂ 73, NaF 11.5, AlF₃ 15.5 were studied by metallographic and x-ray structural analyses, by measuring the polarization of the molybdenum cathode, and by determining the high-temperature strength and oxidation resistance. The phase composition of the Al coating was studied as a function of the electrolysis conditions (current density and time). Electrolytic saturation of the molybdenum surface with aluminum was found to lead to the formation of two- and three-layer coatings, depending upon the electrolysis conditions. To protect molybdenum from high-temperature oxidation, an aluminum coating of the composition Al, MoAl₁₂,

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CIA-RDP86-00513R001652220010-2

\$OURCE CODE : UT/0276/66/000/008/10614/10646

AUTHOR: Belyayeva, G. I.; Anfinogenov, A. I.; Solomatin, V. Ye, Ilyushchenko, N. G. ACC NR. AT6035132

TITLE: Structure and properties of an electrolytic aluminum coating on molybdenum

SOURCE: Ref. zh. Tekhnologiya mashirostroyeniya, Abs. 8E410

REF SOURCE: Tr. In-ta elektrokhimii. Ural'skiy fil. AN SSSR, vyp. 8, 1966, 79-84

TOPIC TAGS: molybdenum, electrolytic deposition, aluminum plating, metal coating,

ABSTRACT: The authors present results of investigations of the structure and properties of aluminum coatings on molybdenum, produced by electrolysis of molten salts. For the alitiration of the molybdenmum (sintered rod), an electrolyte was used with composition (% by weight) BaCl₂ 73, NaF 11.5, AlF₃ 15.5. The surface of the sample was polished before the alitiration. The structure and the composition of the obtained coating were investigated metallographically and by x ray structure methods. The microhardness distribution over the depth of the coating was measured with a RMT-3 instrument with a 20 gram load. The tests for heat endurance were made at 1200° in It is shown that the electrolytic saturation of the molybdenum surface with aluminum leads to formation of two- and three-layer coatings, depending on the electrolysis conditions; to protect the molybdenum against the high-temperature oxidation, aluminum coatings with compositions Al, MoAl12, and MogAl8 are recommended; a coating of a given composition can be obtained at a temperature of 900°, current density 0.1

Card 1/2

UDC: 621.357.7: 669.718

KORSHAK, V.V.; ZAMYATINA, V.A.; BEKASOVA, N.I.; OGANESYAN, R.M.; SOLOMATINA, A.I.

Polyesters of boric acid. Izv.AN SSSR.Ser.khim. no.8:1496-1502 Ag '63. (MIRA 16:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Boric acid) (Esters)

KORSHAK, V.V.; SOLOMATINA, A.I.; BEKASOVA, N.I.; ZAMYATINA, V.A.

Polycondensation of trimeric dimethylphosphinoborine with boronsubstituted borazoles, Izv. AN SSSR Ser.khim. no.10:1856-1857 0 163. (MIRA 17:3)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

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L 8488-65 EWT(m)/EPF(c)/EPR/EWP(j)/EWA(h) Pc-4/Pr-4/Ps-4/Peb ASD(m)-3/ AS(mp)-2/RFL WW/RM ' 8/0062/64/000/008/1541/1543 ACCESSION HR: AP4044710 AUTHOR: Korshak, V. V.; Zamyatina, V. A.; Solomatina, A. I. Phenylphosphine -borine complex, pyrolysis Izvestiya, Seriya khimicheskaya, no. 8, 1964, 15 SOURCE: AN SSSR. 1543 TOPIC TAGS: plienylphosphine borane complex, (phenylphosphino)boraners polymer, imorganic polymer, boron containing polymer, phosphorous containing polymer ABSTRACT: In an attempt to prepare a homogeneous tridimensional net work polymer of the composition (C6H5PBH) the pyrolysis of the phenylphosphine-borane complex at 150-250C was performed for the first time. It was found that at 150C, the complex liberates 1 molof hydrogen to form a (phenylphosphine)borane polymer with a mole-cular weight of 2150, which is probably linear in structure. With increasing temperature, the amount of liberated hydrogen increases to a maximum of 1.5 mol and the linear polymer becomes cross linked. The pyrolysis is accompanied by degradation, the rate of which inand the splitting off of

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creases with	temperature, and	which results in t	he splitting off	of
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AUTHOR: Zamyatina, V.A.; Korshak, V.V. (Corresponding member AN SSSR); Solomatina, A.I.: Chikishev, Yu. G.; Tsetlin, B.L.; Rafikov, S.R.; Glazunov, P. Ya.

TITLE: Radiation synthesis of polymers with the base of trimeric cyclic dimethyl phosphinoborine

SOURCE: AN SSSR. Doklady, v. 159, no. 6, 1964, 1361-1363

TOPIC TAGS: radiation polymer synthesis, trimeric cyclic dimethyl phosphinoborine, irradiation effect, linear structure, polycyclic structure

ABSTRACT: It was shown recently (V. V. Korshak and N. I. Bekasova, Vy*so-komolek. Soyed. 5, 1447 (1963)) that borasoles are polymerized under the action of ionizing radiation and form polymer products of polycyclic structure. It can be expected that irradiation may produce a similar effect in cyclic phosphinoborines. The authors selected for this purpose the trimeric cyclic dimethyl phosphinoborine. The irradiation was accomplished with the electronic accelerator of

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ACCESSION NR: AP5001997

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the Institute for Physical Chemistry AN SSSR at 800 kv with a dose of 6.5×10^4 rad/sec. With irradiation of 4×10^{10} ev/gm. sec, about 70% of the original monomer was transformed into polymer products of two types, one of which was insoluble in benzene, the other soluble. Their composition and thermomechanical properties were investigated. It was established that the products formed are polymers of a linear and of a polycyclic structure. Orig. art. has: 2 figures

ASSOCIATION: Institut elementoorganicheskikh soyedineniy, Akademii nauk SSSR (Institute of Organoelemental Compounds, Academy of Sciences, SSSR)

SUBMITTED: 07Jul64

ENCL: 00

SUB CODE: GC, NP

NR REF SOV: 001

OTHER: 002

Card 2/2

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...ouMoko:

Fel'dohteyn, Ya. I. and Solomatina, E. K.

Some questions of the geographic distribution of auro-

rus in the northern hemisphere

PLAIGUICAL:

Surd 1/4

Referativnyy zhurnal, Geofizika, no. 6, 1962, 24-25, apptract 60141 (V sb. Polyarn. siyaniya i svecheniye

nochn. neba, no. 7, M., AN SSSR, 1961, 51-60)

Plant: Diurnal changes in the appearance frequency of zenith auroral forms are analyzed from the material of forty northern hemisystem stations, situated in a large latitudinal interval -- from the auroral zone to the circumpolar region. The diurnal changes were calculated from auroral ascaplots for the first observational season of the IGY (the winter of 1957-1958). It appeared that according to the nature of the diurnal variations in the frequency of auroral appearances, the high-latitude region can be split into four belts: a) At stations (Arctic II, Nord, Alert), situated in the circumpolar region, there is a maximum in the frequency of

ιX

some questions of ...

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auroral appearances at about noon local time, with a weaker maximam in the morning hours local time (around local geomagnetic moon); around midnight the frequency of auroral appearances is mimimal. b) Stations near the second auroral zone (Resolute Bay, Godhaven, Cape Tobin, Murchison Bay (Merchison Bay)) have a morning maximum at 6 - 8 hrs local time. At Stns. Murchison Bay and Cape Topin a further maximum appears in the evening hours. c) At stations lounted between the first and second auroral zones, there are two manages in the diurnal changes of the frequency of auroral appearables -- in the morning and in the evening; in comparison with the extremes, observed at stations situated near the second zone, the maxima shift closer to midnight. d) Stations near the first auroral zone are characterized by one maximum at about midnight local time. The morning maximum appears on moving from the main surprel zone towards higher geomagnetic latitudes, starting from 970% in the eastern hemisphere and from 970% in the western, i.e. at 3-4% to the north of the main auroral zone. A comparison is given for the diurnal magnetic activity variations in the winter of 1957-1958 and the appearance of auroras in different belts Sadi 2/4

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39101 S/169/62/000/006/084/093 D228/D304

Seme questions of ...

in this winter. The magnitude of the Q-index is taken as a measure of the magnetic activity: a) Near the geomagnetic pole the magnetic motovity for the period November 1957 - February 1958 is maximum around local noon. In the circumpolar area the maximum in the diurhal changes of magnetic disturbances cannot coincide with that for the frequency of auroral appearances; the extreme for the appearance of caroras somewhat anticipates the maximum for the magnetic activity's diurnal variation. b) In the area of the second auroral some the maximum in the daily changes of the frequency of auroral appearances somewhat anticipates the corresponding maximum for the diurnal magnetic activity changes; magnetic disturbances are not related to the appearance of auroras at the zenith. c) Between the first and second auroral zones the morning maximum for the frequeney of auroral appearances coincides or somewhat anticipates that for the magnetic activity. The evening maximum in the frequency of auroral appearances falls on the magnetic activity minimum and, on the contrary, the evening magnetic activity maximum falls on the minimum for the frequency of auroral appearances. d) Near the -auroral zone the maxima for the diurnal magnetic activity and auro-Card 3/4

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652220010-2"

39101 \$/169/62/000/006/064/093 D228/D304

Some questions of ...

rel changes either spineide or are displaced in relation to each other. In the latter case the maximum in the frequency of auroral appearances anticipates that for the magnetic activity's diurnal variations. In high latitudes the relation of the latitude of auroral appearances to the universal time can have a double character:

1) both the degree of magnetic disturbance and the intensity and the frequency of auroral appearances strengthen simultaneously with respect to universal time. 2) Depending on the orientation of the earth's magnetic field relative to the line earth-sun, the most favorable conditions for the surmounting of the earth's magnetic favorable conditions for the surmounting of the earth's magnetic barrier by solar corpuscular flows are created at definite moments of universal time; therefore, auroras and magnetic disturbances arise most often in these hours. The changes due to the first cause are determined by variations in the density and energies of a corpuscular flow's particles. Those induced by the second cause depend on the magnetic field's orientation relative to the line earth-sun. Zabstracter's note: Complete translation. Z

Umra 4/4

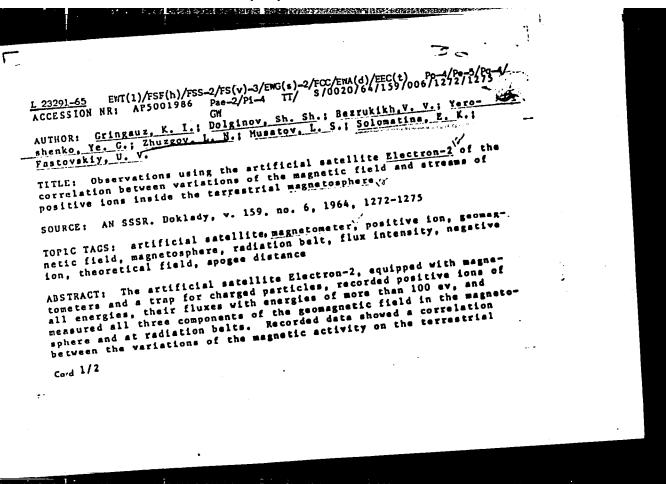
APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652220010-2"

FEL DSHTEYN, Ya.I.; SOLOMATINA, E.K.

Auroras in the Southern Hemisphere. Geomag. i aer. 1 no.4: 534-539 J1-Ag '61. (MIRA 14:12)

1. Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR. (Auroras)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652220010-2"



ACCESSION NR: AP5001986 0 surface and the intensities of fluxes of positive ions and the magnetic field far from the earth. This correlation was observed on quiet days and on days with magnetic disturbances. Numerous negative ion fluxes were recorded on magnetically quiet days. During this time, the magnetometer recorded a magnetic field of regular intensity although it exceeded the theoretical field by 20 y. The maximum deflection from the theoretical field was detected at the apogee of the satellite.

THE PROPERTY OF THE PROPERTY O

On 12 February 1964, all magnetic observatories on the earth recorded Un 14 February 1904, all magnetic observatories on the earth recorded magnetic disturbances of sudden commencement while the trap in the satellite recorded positive ion fluxes excusively of an intensity of 4·10-10 amp. At this time the satellite was at apogee. The magnetometer recorded a rapid increase in the magnetic field. Orig. art.

hast 4 figures.

ASSOCIATION: none SUBHITTED: 15Sep64

ENCL: 00

SUB CODE: ES, SV

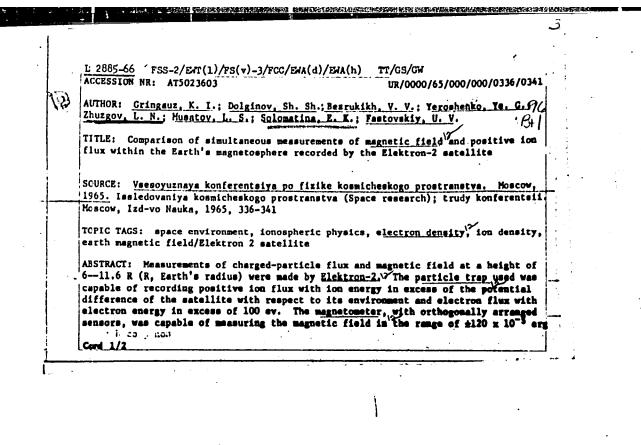
NO REF SOV: 003

OTHER: 008

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Cc-c 2/2

L 23291-65

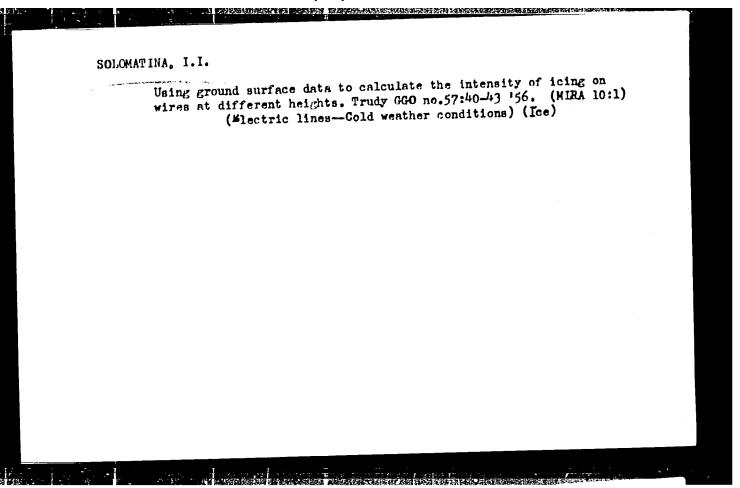


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via atio	ents, when com ground observa n of magnetic c field intens incertain wheth	pared with solar itories, show inc activity on the city and charged her these observa	threshold was 2 x activity data in oneistencies in t Marth's surface a particle flux as tions can be expl plasma due to ch has: 6 figures.	he correlation be nd the variation measured by the s ained by the sola arged particles a	tween the vari- of the geomag- atellite. It wind penetral	ing	
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<u>a (593-66</u> FSS-2/S/T(1)/FS(v)-3/FCC/SVA(d)/SVA(h)TT/GS/TH ACCESSION NR: AT5023612 UR/0000/65/000/000/0418/0419 AUTHOR: Bezrukikh, V. V.; Gringauz, K. I.; Musatov, L. S.; Solomatina, E. K. TITLE: Possibility of a soft electron component in the outer radiation belt, and the variations in this component SOURCE: Vsesoyuznaya konferentsiya po fizike kosmicheskogo prostranstva. Moscow, 1965. Issledovaniya kosmicheskogo prostranstva (Space research); trudy konferentsii. Moscow, Izd-vo Nauka, 1965, 418-419 TOPIC TAGS: satellite data analysis, radiation belt, electron radiation ABSTRACT: Data are given from measurements of charged particle fluxes made by the "Elektron-2" satellite using charged particle traps. The data were obtained during passage of the satellite through the outer radiation belt in the initial stage of flight. Negative collector currents recorded in the trap varied considerably from orbit to orbit; on some orbits there were practically no negative currents. At the same time, radiation counters installed in the satellite showed a fluctuation of only 10% in the count rate for high-energy particles (E > 100 kev). Graphs are given that illustrate this phenomenon. The highest intensity of soft electrons in the outer radiation belt between 30 January and 17 February 1964 was ~3.108 cm-2.sec-1 **Card** 1/2

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ACCESSION NR: AT502	3612				e se no se		6	
recorded on 31 Janua this flux is at leas	t ten times th	ne intensity	v af hioh	-energy	alectrone	+====	ad 4 a	
results may be inter	pert and recor	rded constar Jence of a 4	itly by t	he radia:	tion coun	ter.	These	
of the outer radiation does the high-energy	on belt that i	arles with	time to	a much o	ractor ov	tant bl		
peyond the outer bour	ndary of the r	radiation be	lt. "The	e authore	are ere	taful (-	
S. N. Vernov. Yu. N.	Logachev, E.	N. Sognovet	a Va A	Donadil		0 0-4		1.
and N. A. Mityakov w	Logachev, E.	N. Sosnovet	s, <u>Ye. A</u>	Bonadil	***** 0	G. Get experi	ments	v,
S. N. Vernov, Yu. N. and N. A. Mityakov who before publication." ASSOCIATION: none	Logachev, E.	N. Sosnovet	s, <u>Ye. A</u>	Bonadil	***** 0	G. Get experi	tmantse lments [14]	v,
s. N. vernov, Yu. N. and N. A. Mityakov wibefore publication." ASSOCIATION: none	Logachev, E.	N. Sosnovet wed us to s las: 3 figu	s, <u>Ye. A</u> tudy the ires.	Bonadil	ctov, G. of their	experi	lments [14]	
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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652220010-2"



36-57-69-6/16

AUTHOR:

TITE:

Condensation Accompanying the Mixing of Two Masses of Air (K voprosu

o kondensatsii pri smeshenii dvukh vordusnnykh mass) Truly Glavnoy geofizicheskoy observatorii, 1957, Nr 69,

PERIODICAL:

The author discusses the mixing of two masses of air with a possible pp 45-50 (USSR) amount of water vapor condensation resulting from the blending. The author examines a case when the amounts of the two air masses are not known. It is assumed that; 1) the process of mixing is adiabatic, 2) no edditional vapor ABSTRACT: comes in from outside, 3) the turbulence coefficient is constant, 4) no change in heat or moisture occurs in the horizontal plane, and 5) the boundary between the two mixing air messes is at the near-surface level, with z = 0. A mathematical evaluation is given and formulas are deduced to calculate moisture and temperature for any period of time following the onset of the mixing process. The author demonstrates how the humidity saturation can be determined on the basis of temperature date. If this humidity saturation is equal to or less than the humidity obtained for the two mixing volumes, the condensation of vapor begins. The author also explains how to determine mathematically the temperature of condensation from the formula for equivalent temperatures and he deduces this formula. card 1/2

SOLOW.THA, I.I.

Diurnal variation of absolute hunidity in the lowest atmospheric layer. Trudy GGO no.94:156-162 'GO. (MIRA 13:5)

(Humidity)

<u> HERLYA</u>	-	DLCMTHM, I.I.	
	Theory of d	turnal humidity and air temperature var tmosphoric layer. Trudy GGO no.123:62- (MTR	iations in 69 '61. A 14:8)
		(Humidity) (Atmospheric temperature)	:
		·	
			:

1,3067 S/531/62/000/127/002/007 1053/1242

AUTHOR:

Solomatins, I.I.

TITIE:

The influence of meteorological conditions on the

character of daily variations of humidity

SOURCE:

Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy.

no. 127, 1962. Fizika prizemnogo sloya vozdukha, 48-56

TEXT: The change of himidity with respect to time is directly dependent on the equation $W(\tau) = \frac{V(\tau)}{K(\tau)}$ where $V(\tau)$ and $K(\tau)$ represent the rate of evaporation and the coefficient of exchange. These

quantities, in turn, depend upon the radiation balance, the soil humidity, the speed of the wind and the mean daily values of the coefficients of exchange and evaporation. In the most practical case, by expanding the value $\mathbb{V}(\tau)$ into a Fourier series of harmonics (\mathbb{V}^1) and \mathbb{V}^1_2) the relation \mathbb{V}^1 will be obtained. Two maxima (at midday

and midnight) and 2 minima (in the morning and evening) of the daily

Card 1/2

\$\531\62\000\127\002\007 1053\1242

The influence of meteorological ...

variations of himidity are deduced on condition that the value of the coefficient of turbulent exchange exceeds the increase of the evaporation by day. The increase of total radiation (the transition from winter to summer) or a decrease of lattitude steps up the daily variation of the coefficient of exchange and evaporation. The probability of appearance of a diurnal humidity minimum becomes greater with the decrease of the W'1/W'2 ratio. The latter increases with the intensification of cloud cover, the rise of soil himidity, and wind speed. The experimental data (with a clear sky at latitude of 60° and 50°) agree with the theoretical conclusions. There is 1 figure.

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652220010-2"

SEMENOVA, L.G.; SOLOMATINA, I.I.

Some results of microclimatic observations on rugged ground.

Trudy GOO no.138:38-41 '63. (MIRA 17:2)

S/2922/63/007/000/0108/0116

AUTHOR: Gracheva, V. P.; Solomatina, I. I.

TITLE: Diurnal change in absolute humidity in the surface boundary layer of the atmosphere

SOURCE: Vses. nauchn. meteorologich. soveshch. Trudy*, v. 7. Fizika prizemnogo sloya. Leningrad, 1963, 108-116

TOPIC TAGS: meteorology, absolute humidity, humidity, diurnal humidity variation, boundary layer humidity, turbulence, turbulent diffusion, temperature, air temperature, heat transfer, evaporation, atmospheric boundary layer, atmospheric turbulence

ABSTRACT: Diurnal changes in humidity in the surface boundary layer are examined by solving a combined system of equations for the turbulent diffusion of water vapor and the temperature on the ground and in the air, taking into consideration diurnal change in the exchange coefficient. The turbulence coefficient is thus expressed as two functions: one depending on time, the other on height. Because the surface boundary layer of the air is quasi-stationary, the deviations of humidity and temperature from the average daily values can be solved by the method

of consecutive approximations of the Fourier series. For investigations of diurnal temperature changes, the turbulence coefficient is independent of time and equal to the average daily value. To determine the diurnal change in humidity, one must consider the variations in the exchange coefficient with time. The deviation of the humidity from its average daily value in the layer set is then expressed by the formula

$$q_1 = 2a \sum_{n=1}^{\infty} \left\{ \frac{1}{\sqrt{n}} \left[W_n' \cos \left(n \omega \tau - \frac{\pi}{4} \right) - W_n'' \sin \left(n \omega \tau - \frac{\pi}{4} \right) \right] + \left(W_n' \cos n \omega \tau - W_n'' \sin n \omega \tau \right) \right\}, \tag{1}$$
where

 $a = \frac{1}{\rho \sqrt{\omega k_2}}; \quad C = \frac{\sqrt{\omega k_2}}{k_1} \ln \frac{k_2}{u_0 + k_1 z};$

k and k_2 are the average daily values of the exchange coefficient at the heights z=1 M, and $z=h_m$; W is the angular velocity of rotation of the earth;

Card 2/5

v(3)

 $W_n = W_n' + iW_n'$ is the harmonic for the Fourier series for the function $W(\mathcal{T}) = \overline{K(\mathcal{T})}$; the functions $V(\mathcal{T})$ and $K(\mathcal{T})$ determine the changes in evaporation and the exchange coefficient with \mathcal{T} , where $\mathcal{T} = \int_0^t k(t) dt$. The diurnal changes in the exchange coefficient and evaporation from the ground are determined by the first approximation. Equation (1) allows computations of diurnal humidity variations at various heights. It also can be used to determine the number of extremes in the diurnal humidity fluctuations by merely differentiating the expression for q and equating it to zero. The equation below expresses the number of extremes during the diurnal change of absolute humidity:

$$\frac{W_1'}{W_2'} = f(\tau), \tag{2}$$

where $f(\tau) = \frac{\cos 2\omega \tau - \sin 2\omega \tau - 2C\sin 2\omega \tau}{\frac{1}{\sqrt{2}} (\sin \omega \tau - \cos \omega \tau) + C\sin \omega \tau}$

Thus, the number of extremes for a certain area and season is determined by the diurnal variations of the radiation balance. On the basis of the first approximation, the diurnal change in the exchange coefficient and evaporation, and Card 3/5

the relationship of we can be found. The size of the latter determines the type of diurnal humidity change. Research into the problem of diurnal humidity changes is important for forecasting fogs and cloudiness. Since fogs are formed at night, knowledge of nighttime humidity changes is important. Contrary to former assumptions, the present investigation demonstrated such variations to be considerable. Nighttime humidity changes are determined primarily by the redistribution of the of the initial humidity profile. The role of dew is not very important. For a determination of the initial humidity profile, data on the changes in q are required. These can be calculated by means of:

$$q_{1} = \psi_{0} + 2 \sum_{n=1}^{\infty} \psi'_{n} g'_{n} - \psi''_{n} g''_{n}, \qquad (3)$$
where
$$g'_{n} = \frac{A_{1}'}{\Delta_{n}} (C'_{n} r'_{n} + C''_{n} r''_{n}); g''_{n} = \frac{A_{1}'}{\Delta_{n}} (C'_{n} r''_{n} - C''_{n} r'_{n});$$

$$\Delta_{n} = C'^{2}_{n} + C'^{2}_{n}; C'_{n} = A'_{1} + \sqrt{\frac{n\omega}{2}}; C''_{n} = \sqrt{\frac{n\omega}{2}};$$

$$r(x_{n}) = e^{ix_{n}^{2}} \operatorname{erfc} x_{n} \sqrt{l}; x_{n} = \sqrt{\frac{n\omega A_{1}'}{k_{2}'}}; A'_{1} = \frac{A'_{2}}{\sqrt{k_{2}'} \ln \frac{k_{1}'}{\omega_{0} + k_{1}' z}};$$

Card 4/5

Here: V_0 = the average daily humidity for the past 24 hours; V_{n} , are the harmonics of the Fourier series as per the formula below:

 $\psi(\tau') = \psi_0 + 2\sum_{n=1}^{\infty} (\psi'_n \cos n\omega \tau' - \psi''_n \sin n\omega \tau');$

and k_2 and k_2' are the average values of the exchange coefficient in the layer z > h in conformity with r > 0 and r < 0. The values of g_n' and g_n'' for various k_1 , k_1 , n and r > 0 are computed. For practical purposes, these formulas are simplified for such items as: number of extremes, the more common values of k_1 , k_1' , etc. The article contains numerous such simplified formulas and explanations of how they affect the computation of the minimum nighttime humidity. In general, the expected minimum humidity is equal to the average value of the previous 24 hours. The expected variation for the night equals r > 0 orig. art. has: 3 figures, 2 tables and numerous formulas.

ASSOCIATION: GGO.

SUBMITTED: 00

DATE ACQ: 27Dec63

ENCL: 00

SUB CODE: ES

NO REF SOV: 008

OTHER: 000

Card 5/5

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001652220010-2"

SOLOMATINA, I.I.

Effect of the ground relief on the wind velocity and turbulent exchange in the ground layer of the atmosphere. Trudy GGO no.158: 50-55 '64.

1) 61965-15 EWT(1)/FOC DW

ACCESSION NR: AT5019736

UK/2531/65/000/172/0058/0069,

AUTHOR: Solomatina, I. I.

TITLE: The effect of topography on the meteorological characteristics of the surface boundary layer

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 172, 1965. Voprosy atmosfernoy diffuzii i zagryazneniya vozdukha (Problems of atmospheric diffusion and contamination), 58-69

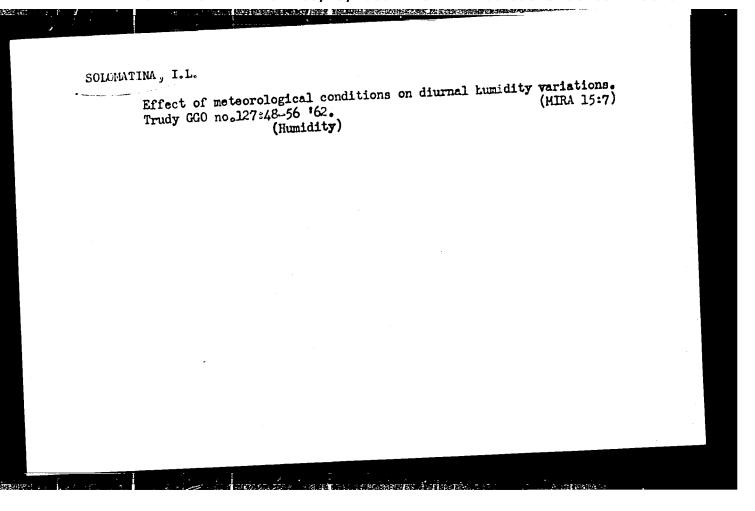
TOPIC TAGS: micrometeorology, atmospheric boundary layer, atmospheric turbulence, turbulent diffusion

ABSTRACT: Meteorological observations have been carried out in the region of the Shchekinskaya GRES during the 1961-1963 period to study the effect of topography on the wind, temperature, humidity, and turbulent exchange in the surface boundary layer. The actual observation program was discussed in detail earlier by the same author (Tr. GGO, no. 158, 1964). The present article gives the results of measurements of wind, temperature, and humidity and the turbulence coefficients over terrain with relief variations of 30-70 m. Summer

Card 1/2

1244.55

1, 64965-65 ACCESSION NR: AT5019736 and winter data are treated separately. The author emphasizes that the changes in the meteorological characteristics depend very greatly on the weather conditions and the observation time. The need for new extensive experimental data and further theoretical studies is indicated. Orig. art. has: 1 formula, 2 figures, and 5 tables. [08] ASSOCIATION: Glavnaya geofizicheskaya observatoriya, Leningrad (Main Geophysical Observatory) 44,55 SUB CODE: ES ENCL: SUBMITTED: ATD PRESS: 4083 OTHER: 00 NO REF SOV: 002 an



SOLOMATINA, K.

Intensify laboratory control. Obshchestv. pit. no. 6:38-39

[HIRA 11:7]

1. Nachal'nika otdela sanitarnoy sluzhby Ministerstva torgovli RSFSR. (Restaurants, lunchrooms, etc.)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652220010-2"

KRASNITSKAYA, Ye.S.; SOLOMATINA, K.Z.; FISHER, Ye.A., red.; EL'KINA, E.M., tekhn. red.

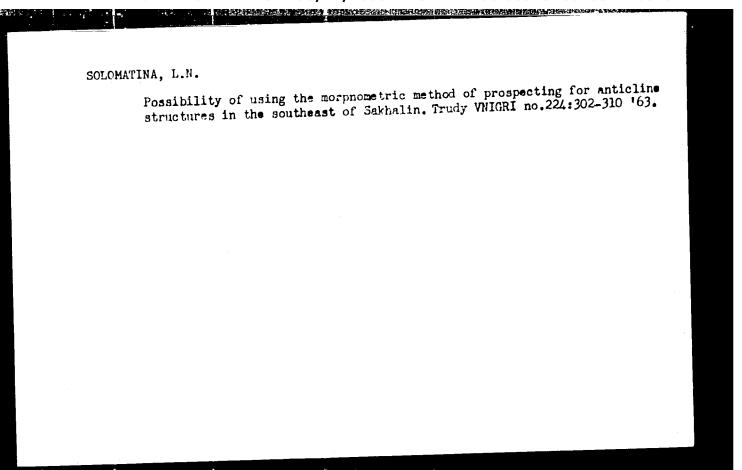
[Materials on food sanitation in public eating establishments and commerical enterprises] Sbormik materialov po pishchevoi sanitarii v predpriiatiiakh obshchestvennogo pitaniia i torgovli. Moskva, Gostorgizdat, 1963. 270 p. (MIRA 16:5)

 Russia (1917- R.S.F.S.R.) Ministerstvo torgovli. (Food industry-Sanitation) (Food law and legislation)

SOLOMATINA, L.N.

Ekhabi series. Trudy VNICRI no.181:83-87 '61. (MIRA 15:2)

(Sakhalin—Geolory, Stratigraphic)



CIA-RDP86-00513R001652220010-2 "APPROVED FOR RELEASE: 08/25/2000

5/056/62/043/003/063/063 3104/3102

Sedov, V. L., Solomatina, L. V., Il'chenko, L. S.

The heat conductivity of a natural magnetite crystal at low AUTHORS: TITLE:

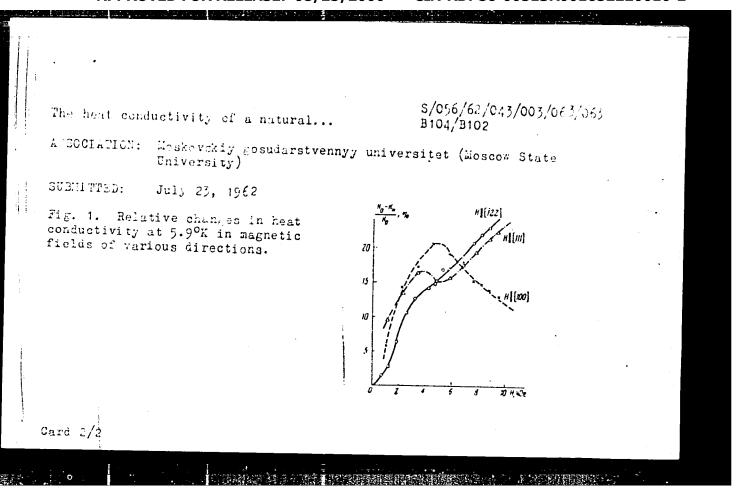
temperatures

Zhurnal eksperimental noy i teoretichesko; fiziki, v. 43, no. 3(9), 1962, 1125-1126 PERIODICAL:

TEXT: The heat conductivity of a natural magnetite single crystal (from the Ural) below 150% was measured using a method worked out by 3. 7.

Zivaritskiy and A. G. Zel'dovich (ZhTF, 26, 2032, 1956). Magnetic fields of up to 10 koe were applied in various directions. In all measurements the temperature gradient lay along the [111] direction of the octahedral crystal. The results (Fig. 1) clearly snow the action of the spin waves in heat transfer. Above 30K, heat conductivity is a linear function of temperature, below 30K it is not. This deviation from linearity is related to the activation energy of the spin waves. At temperatures around 900K, magnetic fields of up to 10 kee have no effect on heat conductivity within the accuracy of measurement which is 2 %. There are 2 figures.

Card 1/2



	SOURCE CODE: UR/0274/66/000/003/v031/v031	
AUT TIT CIT SOURCE TO AE proper state of the	HOR: Solomatina, M. P. LE: Investigation of the mutual influence of symmetrical cable communications reuits in a pulsed regime JRCZ: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 3V237 F SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, vyp. 26, 1965, 127-136 PIC TAGS: wire communication, circuit design, communication line SSTRACT: The process of energy transfer between wire communications circuits in the resence of electromagnetic pulses is studied. The case of energy transfer between electromagnetic pulses is studied. The case of energy transfer between symmetrical circuits is considered. Formulas are derived for calculating the nort symmetrical circuits is considered. Formulas are derived for calculating the abstract]	
S	UB CODE: 17	
		-
	UDC: 621.391.827	
1,	Cord 1/1	

SOLOMATINA, O.G.

Certain immunological reactions in the dynamics of the rheumatic process in children. Pediatriia no.5:39-43 S-0 154. (MIRA 7:12)

1. Iz revmaticheskoy kliniki Nauchno-issledovatel'skogo pediatricheskogo instituta Ministerstva zdravookhraneniya RSFSR (dir. kandidat
meditsinskikh nauk V.N.Karachevtseva) i Klinicheskoy detskoy bol'nitsy (glavnyy vrach zasluzhennyy vrach RSFSR Ye.V.Prokhorovich)
(RHEUTATISM, in infant and child,
immunol. aspects)

ET AND

SOLOMATINA. 0. G. Cand Med Sci -- (diss) "Certain immunological reactions in the dynamics of rheumatic processes in children. "Mos, 1956. 14 pp 20 cm. (Min of Health USSR. Central Inst for the Advanced Training of Physicians), 100 copies (KL, 7-57, 110)

77

MATVEYEV, M.P.; GAMBURG, R.L.; SOLOMATINA, O.G.

"Rheumatism in children." A.B. Volovik. Reviewed by M.P. Matveev, R.L. Gamburg, O.G. Solomatina. Pediatriia 39 no.2:87-89 Mr-Ap '56.

(RHEUMATIC FEVER)

(MIRA 9:8)

THE CONTROL OF THE STATE OF THE

Periarteritis nodosa in a 14-year-old boy. Pediatriis no.2:76-79
F '57. (MIRA 10:10)

1. Iz kafedry pediatrii TSentral'nogo instituta uscvershenstvo-vanlya vrachey (zav. - deystvitel'nyy chlen aNN 585R prof. G.N.
Speranskiy) ma baze detskoy bol'nitsy imeni Dzerzhinskogo (glavnyy vrach Ye.G.Krayeva)

(ANTERIES--DISMASAS)

SOLOMATINA, O.G., kand.med.nauk; KLAYSHEVICH, G.I., kand.med.nauk; LEVINA, S.M.; IVANOVA, A.A.

Clinical aspects of rheumatic fever in children. Sow.med. 24 no.11: 3-8 N. 160. (MIRA 14:3)

1. Iz revmatologicheskoy kliniki kafedry pediatrii (zav. - deystvitel'nyy chlen AMN SSSR prof. G.N.Speranskiy, nauchnyy rukovoditel' kliniki - doktor meditsinskikh nauk R.L.Gamburg) TSentral'nogo instituta usovershenstvovaniya vrachey na baze klinicheskoy detskoy bol'nitsy imeni Dzerzhinskogo (glavnyy vrach A.N.Kudryasheva).

(RHEUMATIC FEVER)

GAMBURG, R.L., doktor med.nauk; SOLOMATINA, O.G., kand.med.nauk

Use of hormonal preparations in active rheumatic phases in children. Sov.med. 25 no.4:63-67 Ap '61. (MIRA 14:6)

1. Iz kafedry pediatrii (zav. - deystvitel'nyy chlen AMN SSSR prof. GLN.Speranskiy) TSentral'nogo instituta usovershenstvovaniya vrachey (dir. M.D.Kovrigina).

(ADRENOCORTICAL HORMONES) (RHEUMATIC FEVER)

SOLOHATINA, O.G., dotpent; LYAPUNOVA, A.P., LEVINA, S.I.; KOGAN, N.M.

Differential approach to the diagnosis of mitral stenosis in children. Sov.med. 26 no.1:85-90 Ja '63. (MIRA 16:4)

1. Iz revmatologicheskoy kliniki (rukovoditel' - prof. R.L. Gamburg) kafedry pediatrii (zav. - deystvitel'nyy chlen AMN SSSR prof. G.N.Speranskiy) TSentral'nogo instituta; usovershenstvovaniya vrachey na baze detskoy klinicheskoy bol'nitsy No. 9 (glavnyy vrach A.N.Kudryashova).

(CHILDREN.—DISEASES) (MITRAL VALVE.—DISEASES)

54.	the Lookevskeya Chlast." Card Liol Sci, Mescow Chlast Redapogical Inst, 13 May Vecherryaya Moskva, Moscow, 3 May 52.							
S0:	SUM 284, 26	Nov 1954.						
								:

(ight - valor equilibrium in the protemp aerolein - methyl altyl lattine, isopropyl alcohol - allyl alcohol - water, and allyl altholol - secondary futyl alcohol - grill. (side. 37 no.10:226-2216 C */4. (side 17:11)

sov/ 112-58-1-175

Franslation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 1, p 21 (USSR)

AUTHOR: Zalkind, I. Ya., Solomatina, T. V., Vasil'yeva, G. N., and Lebedeva, M. F.

TETLE: A Lighter Type of Concrete Lining for a PK-19 Series High-Pressure
Boxler (Oblegchennaya betonnaya obmurovka seriynogo kotel'nogo agregata
vysokogo davleniya PK-19)

PERIODICAL: Naladochn. i eksperim. raboty ORGRES, 1956, Nr 13, pp 3-9

ABSTRACT: Bibliographic entry.

AVAILABLE: Library of Congress

1. Combustion chamber liners 2. Concrete--Applications

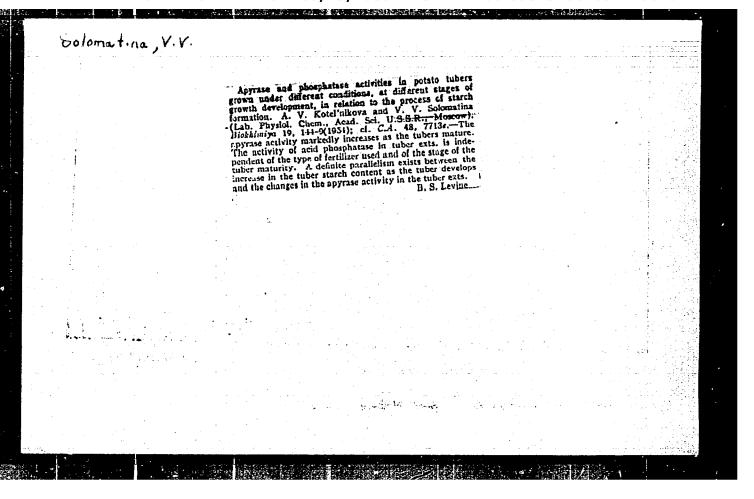
Card 1/1

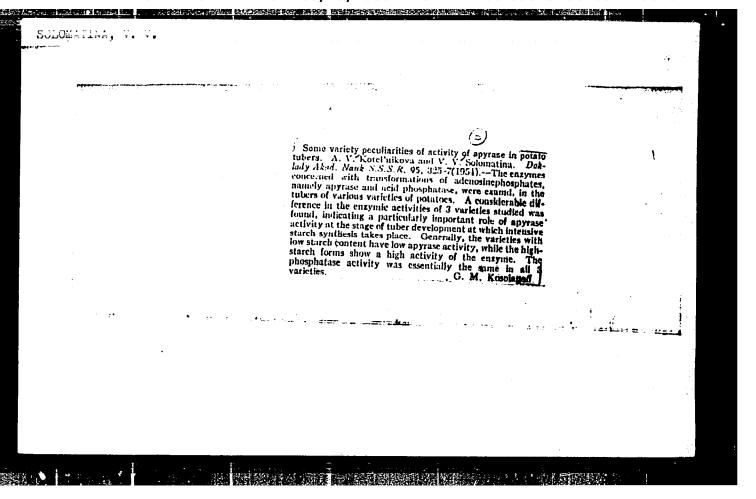
ZAIKIND, I.Ya., kand. tekhn. nauk; SOLOMATINA, T.V., inzh.; NADZHAROV, M.A., kand. tekhn. nauk.

Fluxing coals with thigh fusion-temperature ash in cyclone firing. Teploenergetika 5 no.4:34-41 Ap 158. (MIRA 11:5)

1. Gosudarstvennyy trest po organizatsii i ratsionalisatsii elektrostantsiy i Moskovskoye otdeleniye TSentral'nogo nauchno-issledovatel'skogo kotloturbinnogo instituta.

(Combustion) (Turnaces)





KOTEL NIKOVA, A.V.; SOLOMATINA, V.V.

Radiophosphorus in the study of adenosinetriphosphoric acid motabolism in rabbits in alloxan disbetes [with summary in English]. Biokhimiia 22 no.6:954-962 N-D '57. (MIRA 11:2)

1. Laboratoriya fiziologicheskoy khimii Akademii nauk SSSR, Mostra, (DIAHETES MELLITUS, experimental, ATP metab., radiophosphorus study (Rus)) (ADENYLPYROPHOSPHATE, metabolism, in exper. diabetes mellitus, radiophosphorus study (Rus))

KOTEL'NIKOVA, A.V.; DOVEDOVA, Ye. L.; SOLOMATINA, V.V.

Separation of adenosine phosphoric acids by the use of austian anionibes. Biokhimiia 24 no.2:215-221 Mr-Ap '59. (MIRA 12:7)

1. Laboratory of Physiological Chemistry, Academy of Sciences of the U.S.S.R., Moscow.

(ION EXCHANGE RESINS,

anion exchange resins, determ, of ATP (Rus))

(ADENYLPYROPHOSPHATE, determ,

anion exchange resin technic (Rus))

DUBLIANCE A, V.V., O REKAN, I.A., KOTELIIKUVA, A.V., (URSE)

"Changes in ATF and other Mucleptide Contents in Pat Liver and Ausole in 2,4-Dinitrophenol Psisioning."

Deport presented of the 40% Int'l. Plack Estry Jongress, Massaw, 10-lo Aug 1901.

KCTEL'NIKOVA, A.V.; SOLOMATINA, V.V.; GORSKAYA, I.A.

Adenosinephosphoric acid sontent of the rat liver and muscles in dinitrophenol poisoning. Biokhimiia 25 no.6:1085-1091 N-D '61. (MLA 14:5)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscow.

(PHENOL__TOXICOLOGY)
(LIVER)

(MUSCLES)

(ADENOSINEPHOSPHORIC ACIDS)

KOTEL'NIKOVA, A.V.; SOLOMATINA, V.V.

Investigating some transformations of nucleotides from aqueous extracts of the liver and spleen of a rabbit. Dokl. AN SSSR 143 no.2:452-455 Mr 162. (MIRA 15:3)

LANCE CONTROLLED STREET THE SERVICE OF THE SERVICE

1. Institut biokhimii im. A.N.Bakha AN SSSR. Predstavleno akademikom A.I.Oparinym.

(NUCLEOSIDE MONOPHOSPHATE KINASE)

(ADENYLATE KINASE)

(LIVER)

(SPLEEN)

Study of the attifuy of some nucleotides to en electrolycome function. Biokhimia 30 no.4:816-824 J1-Ag '65. (MIEJ 18-8)

1. tretutus biokhimia imeni A.N. Bakhe AN SESP. Moskva.

and the control of the companies of the control of

BYECCHEIN, Aleksey Mironovich; LUGOV, S.F., nauchn. red.;
SOLOMATINA, Z.D., ved. red.

[Tungsten deposits and the characteristics of their distribution] Mestorozhdeniia vol'frama i zakonomerno-

sti ikh razmeshcheniia. Moskva, Nedra, 1965. 235 p. (MIRA 19:1)

SOLOMATINA, Zinaida Fedorovna, komandir korablya, Geroy Sotsialisticheskogo
Truda, delegat XXII s"yezda Kommunisticheskoy partii Sovetskogo
Soyuza.

Clear objective. Grazhd.av. 18 no.12:1 D '61. (MIRA 15:1)

(Aeronautics, Commercial)

arrest and the control of the presentation of the control of the c

SOV/132-58-12-4/14

AUTHORS:

Blinev, N.I., Kontershchikov, P.V., Lyubimev, V.P., Solematov,

M.A. and Vershinin, Yu.I.

TITLE:

To Increase the Durability of Shot Boring Bits (Povysheniye stoykosti drobovykh koronok)

PERIODICAL:

Razvedka i okhrana nedr, 1958, Nr 12, pp 24-31 (USSR)

ABSTRACT:

The Sverdlovsk Mining Institute conducted extensive tests with different shot boring bits to establish the main factors increase the resistance to wear of the bits under different geological conditions. These factors are: 1) the influence of the hardness of shot boring bits on the drilling speed; 2) the influence of the chemical composition of these bits on their resistance to wear and on the drilling speed; and 3) the influence of the shape of the bits on their resistance to wear and on the drilling speed (See Graphics 1 to 7). The following conclusions were reached: 1) in the drilling of bore holes with tempered steel shots, the boring bits must have vertical rectangular indentations. They are most simple to manufacture, maintain constant pressure on the rock and increase drilling speed; 2) the drilling speed depends on the shape of the indentation, its width and height

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APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652220010-2"

To Increase the Durability of Shot Boring Bits

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and also on the thickness of the walls and the hardness of the metal of the bit. Bits with a rectangular indentation and with 10-12 mm thick walls give the best results; 3) the basic parameters of the bit must be as follows: a) a rectangular 150-200 mm high and 1/4-1/87 D wide indentation; b) the walls of the bit must be 10-12 mm thick, c) the total height of the bit must be 250-300 mm; 4) the shot boring bits must be made from steel of the brands Ul2S, 30KhGS, 40Kh and 45, tempered for a metal strength of 25-30 H_{RC}.

There are 7 graphs, 1 table and 10 Soviet references.

ASSOCIATION:

The Sverdlovskiy gornyy institut (The Sverdlovsk Mining Institute)

Card 2/2

14(6) AUTHOR:

Solomatov, V.I., Engineer

SOV/98-59-4-4/17

TITLE:

On the Problem of Selecting the Type of Spillway Structure (K voprosu o vybore tipe vodosbrosnogo

soorusheniya)

PERIODICAL:

Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 4, pp 20-23 (USSR)

ABSTRACT:

The author stresses the importance of two-storied dams such as the Ivan kovskaya and Uglichskaya plotiny (Ivan'kovo and Uglich dams) and the Rybinsk dam equipped with bottom openings. Mosenergo under whose administration are the Upper Volga hydroelectric power plants, has much experience in operating them, The control data of the Gidrotekhnicheskaya sluzhba power (Hydrotechnical Service) of the Mosenergo also reveals that the two-storied dams perform excellently under any conditions, bottom openings open or partly open. Apart from a 10-15% saving in concrete, they have a steadier flow capacity and are more suitable during ice-drift periods than dams of the conventional

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SOV/98-59-4-4/17 On the Problem of Selecting the Type of Spillway Structure

type. The two-storied dams are especially well suited for medium-pressure hydroelectric power plants to be erected on large rivers flowing through the great plains of the USSR. The author uses the following formula to ascertain the amount of water discharge during the period T (from the moment the dam openings are open to the moment the reservoir is filled):

$$\overline{Q}_{1,2} = \frac{\sum_{Q_{0i}} v_{i} - \sum_{Q_{0i}} Q_{0i} v_{i} - \sum_{Q_{0i}} Q_{0i} v_{i}}{\sum_{Q_{0i}} v_{i} - \sum_{Q_{0i}} v_{i} - \sum_{Q_{0i}} v_{i}},$$

whereby $\sum_{i=1}^{T} Q_{0i} \Delta t_{i}$ is the overall influx into the reservoir during the period T; $\sum_{i=1}^{T} Q_{2i} \Delta t_{i}$ is the water Card 2/3 discharge through the power plant during that time;

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reservoir during that time; is the average area of the reservoir surface when reaching the value h. There are 3 graphs.

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sov/98-59-8-4/33

14(10,11)

AUTHORS:

Berezinskiy, A.R., Professor, Doctor of Technical Sciences, and

Solomatov, V.I., Engineer

TITLE:

The Use of Plastics in Hydraulic Construction Work

PERIODICAL:

Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 8, pp 12-17 (USSR)

ABSTRACT:

The article opens with a general introduction on the importance of synthetic materials, stating that as a result of a resolution passed by the May Plenum of the Party Central Committee, the output of plastics is to be increased sevenfold, one-third of all production being devoted to construction materials. A short account of the main features and properties of plastics is given, and the author then proceeds to a review of the part played by plastics in the field of hydraulic construction work. The primary advantage of plastics is that they are waterproof, there being 4 basic methods plastics is that they are waterproof, there being 4 basic methods of application: 1) Plastic sheeting, usually polyethylene, polyicobutylene (oppanol A and BA) or polyvinyl chloride (mipolam, etc.), which is used for anti-filtration screens in dams or for waterproofing tunnels, etc. Examples given of this type of application

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The Use of Plastics in Hydraulic Construction Work

are the Semmering tunnel in Austria, the subway in Stockholm, and and the East German research is being conducted by the VNIIGIM Institute of Hydraulics. A cementless sama concrete, bound by furfurole, developed by the Central Scientific Research Institute of Subterranean Mining Construction Work, is also briefly described; 2) this method entails infiltrating the plastic (bitumen, paraffin, etc.) into the pores of the concrete after it has set, and the results of tests by the NIS Gidroproyekt are given; 3) the painting of the surface of concrete - not a new method, but one which has recently extended to asphalts and plastics as well as bitumen. Research is being carried out by the Leningrad Metrostroy; 4) the atomization of plastics over the serface of concrete, and a waterproof asphalt plastic known as "atizol" has been developed by the TsNIIS. The author goes on to discuss the part played by individual components made from plastics, citing as examples the use of Mark B laminated wood plastics (DSP-B, GOST 5704-51) by the Gidrostalproyekt in the form of runners for sliding bearings in a number of GES projects, and the use of the same plastic on the Moskva

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sov/98-59-8-4/33

The Use of Plastics in Hydraulic Construction Work

Canal for bushes and bearings in turbines, pumps, etc. The possibilities of whole construction units being made of plastics (such as ships! hulls) are touched on, and then a rapid survey is made of the use of plastics as elements for joining 2 components, isco., as joints, in the form of plastic strips which are stuck to the surface of the concrete by special adhesives (Nr 88, according to the NIS of the Gidroproyekt); as bungs for warping seams, replacing metal fillings (mention is made of the use of polyvinyl chloride bungs in the Kremenchug GES project); and also as adhesives, research on which has been conducted in East Germany, Czechoslovakia and by the Khar'kov Institute of Engineering and Construction. The last section of the article is devoted to the use of plastics in major construction work, and briefly describes work carried out at a number of Moscow ferro-concrete works by the Scientific Research Institute for Construction of the Ministry of Construction of the RSFSR, and also the work of the Institute for Foundations and Underground Construction in the field of the application of synthetic tars for strengthening foundation dams.

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The Use of Plastics in Hydraulic Construction Work

There are 41 references, 16 of which are Soviet, 7 English, 7 West German, 4 American, 2 Czech, 1 East German, 1 Spanish, 1 Italian, 1 Hungarian, and 1 Dutch.

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Solomatov, V. I., Engineer AUTHOR:

Concrete containing furan resin TITLE:

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, no. 9, 1960, 16-17

TEXT: The author describes measures for increasing the imperviousness, strength, and acid resistance of concrete. Collaborators of VNIIST ard NIIPlastmass studied the addition of furyl alcohol to the concrete mixture. The following recipe is given: Approximately 57 kg of furfuryl alcohol, 8.5 kg of aniline hydrochloride, 334 kg of cement, and 134 kg of water are to be added to 1m3 of concrete. This concrete is well suited for the production of water containers and similar objects. Collaborators of TsNIIPodzemshakhtstroy and the Kafedra plastmass MKhTI imeni D. I. Mendeleyeva (Department of Plastics of the MKhTI imeni D. I. Mendeleyev) developed a mineral organic concrete containing no cement. This type of concrete is practically a plastic with mineral filler. In this case, furfurol acetone monomer, furfurol, benzene sulfo acid, and building sand were used. The concrete is solidified by polymerization of the monomer.

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